



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

DOT-E 11598
(FOURTH REVISION)

400 Seventh St., S.W.
Washington, D.C. 20590

AUG 21 2001

EXPIRATION DATE: July 31, 2003

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Metalcraft, Inc.
Baltimore, MD
2. PURPOSE AND LIMITATIONS:
 - a. This exemption authorizes the manufacture, marking, sale and use of DOT specification cylinders equipped with pressure relief device systems other than as prescribed to be used for the transportation in commerce of certain Division 2.2 materials. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.34(d), § 173.304(a)(2), § 175.3 in that DOT specification cylinders with pressure relief devices other than as prescribed are authorized, except as specified herein.
5. BASIS: This exemption is based on the application of Metalcraft Inc. dated August 8, 2001, submitted in accordance with § 107.109.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Bromotrifluoromethane or Refrigerant gas, R 13B1	2.2	UN1009	N/A
1-Chloro-1,2,2,2- tetrafluoroethane or Refrigerant gas R 124	2.2	UN1021	N/A

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Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Heptafluoropropane or Refrigerant gas R 227	2.2	UN3296	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packagings prescribed are DOT Specification 39, 4B360 and 4BW cylinders equipped with a pressure relief system in accordance with Metalcraft, Inc.'s drawings and specifications on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA). The pressure relief system is actuated by a fusible link or a heat actuated glass. Each cylinder has a minimum test pressure of 720 psig and a minimum burst pressure of 1,440 psig. The pressure relief system must function: (a) at a temperature no greater than 212°F and (b) at a pressure no greater than 80 percent of the cylinder's minimum burst pressure.

b. TESTING - Each cylinder must be tested as required in the specification under which it is manufactured and each DOT Specification 4B360 and 4BW cylinder must be retested as specified in § 173.34(e).

c. OPERATIONAL CONTROLS -

(1) The maximum permitted filling density is 70 pounds/cubic foot for Bromotrifluoromethane and 72 pounds/cubic foot for Heptafluoropropane, and the maximum charge pressure may not exceed that specified in § 173.301(f).

(2) Bromotrifluoromethane may not be transported in DOT 4B360 cylinders. Only DOT Specification 39 cylinders prescribed in Paragraph 7.a. of this exemption are authorized.

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of paragraph (b) of § 173.22a, persons may use the packaging authorized by this exemption for the transportation of hazardous materials specified in paragraph 6, only in conformance with the terms of this exemption.

b. A person who is not a holder of this exemption, but receives a package covered by this exemption, may reoffer it for transportation provided no modifications or changes are made to the package and it is offered for transportation in conformance with this exemption and the HMR.

c. Each packaging manufactured under the authority of this exemption must be either marked with a registration symbol designated by the Office of Hazardous Materials Exemptions and Approvals for a specific manufacturing facility.

d. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

e. A current copy of this exemption must be maintained at each facility where the package is manufactured under this exemption. It must be made available to a DOT representative upon request.

f. MARKING - Each cylinder must be marked plainly and durably marked DOT-E "11598".

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, cargo vessel, cargo aircraft only and passenger-carrying aircraft.
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel and aircraft used to transport packages covered by this exemption. The shipper must furnish a current copy of this exemption to the air carrier before or at the time the shipment is tendered.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
 - o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, Parts 171-180.
 - o Registration required by § 107.601 et seq., when applicable.

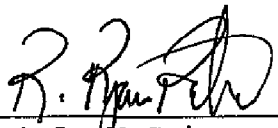
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Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (OHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must also inform the OHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under this exemption.

Issued in Washington, D.C.



Robert A. McGuire
Associate Administrator
for Hazardous Materials Safety

AUG 21 2001

(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street S.W., Washington, DC 20590-0001, Attention: Records Center, 202-366-5046.

PO: sln